FY17 DEP Operating and Capital Budgets

Water Quality Advisory Group March 28, 2016

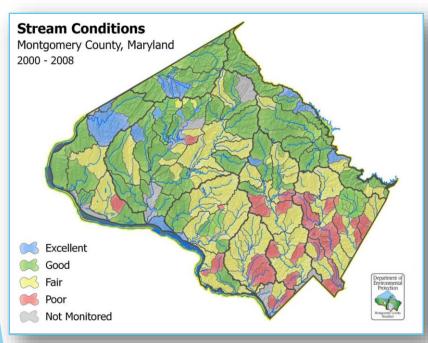


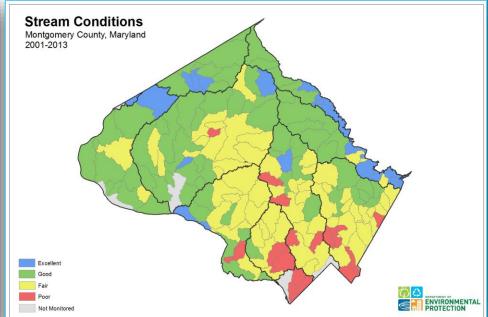
Working together for a cleaner, greener economically vibrant community



Overview

- Progress in restoring our watersheds
- Update on progress on 2010 MS4 Permit
- ► FY17 Budget
- Continued Commitment to Green Infrastructure
- Moving Forward







Kensington library rain garden inlet with stormdrain art



Kensington Library before retrofit



Kensington Library rain garden installed for MS4 retrofits 4

White Oak roadway rain garden

Stormwater Facilities collect trash, leaves, and sediment from stormwater runoff. This debris is removed to ensure the facility continues to function.



Asphalt and concrete constantly wear off

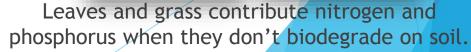


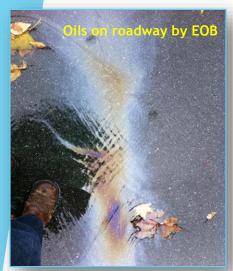


Trash and debris found in stormwater facility inlet

Inlet to bioretention facility

at McKnew Local park





Hydrocarbons



Heavy metals scrape off every time you brake a vehicle

Soil and plants in rain gardens capture and filter out pollutants (oils, grease, chemicals, heavy metals) and bacteria that are collected in stormwater runoff before they reach the stream





Cigarette butts and trash in bioretention facility along Arcola Ave



Sediment in bioretention inlet along Lockwood Drive



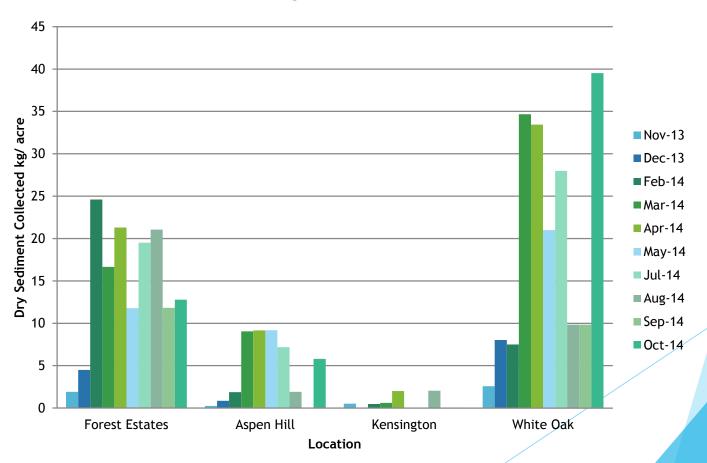
Trash and leaves in inlet to tree box along Dennis Ave



Leaves collected from the Breewood bioswale

Examples of the trash, sediment, leaves, sticks, and other debris captured by our green street bioretention and rain garden facilities

2013-2014 DEP commissioned a roadway sediment study with UMD. The study found that 10,500-21,000 lbs of DRY sediment is captured in one year from inlets of 130 roadway raingardens along 4 neighborhood retrofitted with bioretention facilities. Without the bioretention facilities this sediment would have gone into our local streams.

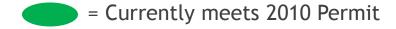


Update on progress on 2010 MS4 Permit

Accomplishments to Date

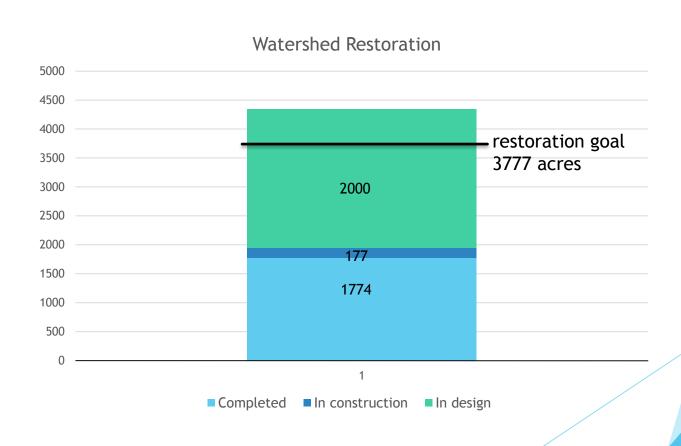
- DEP's overall commitment: Ensure that Water Quality Protection Funds are targeted to make the greatest impact in meeting the MS4 permit requirements
- ▶ DEP has made substantial progress in meeting the 2010 Permit requirements, as reflected in our draft annual report for FY14:

Permit Requirement	Compliance	Permit Requirement	Compliance
Legal Authority		Watershed Restoration	
Source Identification		Assessment of Controls	
Discharge Characterization		Program Funding	
Management Programs		Total Maximum Daily Loads	
Watershed Assessment		ESD Inspection	



= In process of meeting 2010 Permit

Update on progress on 2010 MS4 Permit



Update on progress on 2010 MS4 Permit

Impervious Area Credits by Delivery Method

- 70% impervious credits are directly CIP funded
- ▶ 30% impervious credits are from agency partnerships, street sweeping, catch basin cleaning, reforestation, RainScapes, and redevelopment



FY 17 Operating Budget

- Revenue
 - Water Quality Protection Charge (WQPC)
 - ▶ \$34.5 million
 - Bag Tax
 - > \$2.3 million
- Non Operating Program Related Expenses
 - ► Indirect costs: \$1.4 million
 - ▶ Bond debt service: \$ 6.3 million
 - CIP facility planning: \$ 1.3 million

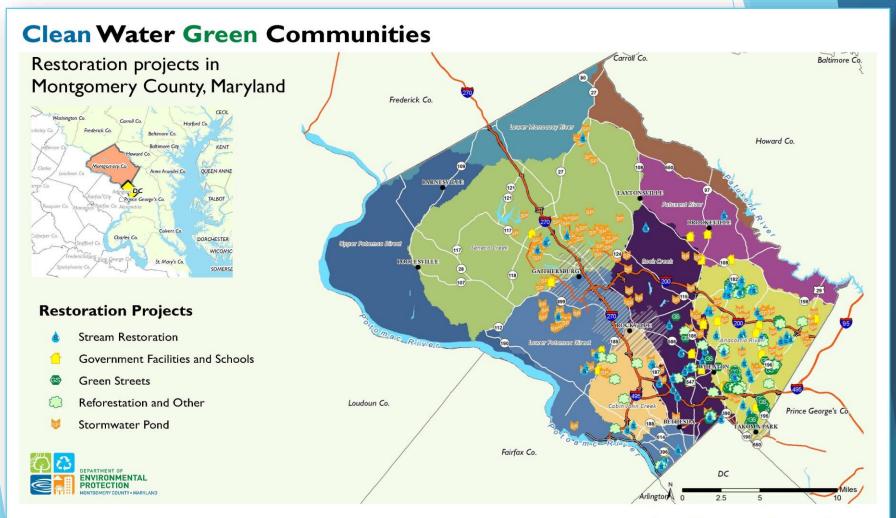
FY17 DEP Operating Related Expenses

- ▶ DEP Personnel: \$5.5 million
- SWM facility inspection and maintenance: \$6.2 million
- Rainscapes: \$325,000
- Watershed Restoration Grants: \$350,000
- Street sweeping: \$231,000
- ▶ USGS gages: \$500,000
- Outreach and Education: \$205,000
- ► SPA Monitoring: \$170,000

Non DEP Operating Expenses

- Storm Drain Maintenance (DOT): \$ 4.35 million
- ► MNCPPC: \$3.1 million
- Soil Conservation District: \$320,000

Strategically Targeting Restoration Projects to Maximize Environmental Benefit



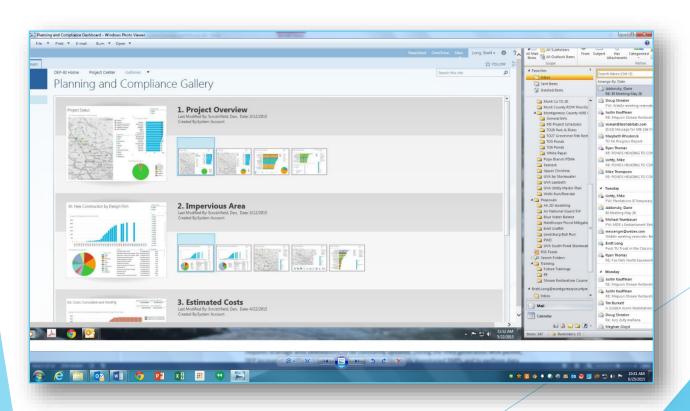
Visit our website to find a project near you at montgomerycountymd.gov/restorationprojects

FY17 CIP Budget

- Major Structural Repairs: \$4.6 million
- Government Facilities: \$3.4 million
- Roads: \$9.4 million
- Schools: \$ 2.4 million
- Misc. Stream Valley Improv: \$8.9 million
- Countywide \$21.9 million
- Facility Planning: 2.1 million
- Interagency: \$1.6 million
- Wheaton Dam Flood Mitigation: \$3.0 million

Project Management Tools

Tool	Description	Status	Operational Date
Project Server	Critical Path Scheduler	Operational	
BI Tool	Reporting tool	Operational	
Portfolio Tool	Project Selection Tool	Beta Testing	



- Green infrastructure refers to environmental site design and other management practices that typically use plants and soil media.
- On a larger scale, green Infrastructure is a patchwork of natural areas that provide habitat, flood protection, cleaner air and cleaner water.
- DEP considers wetland/wet pond retrofits and stream restoration projects as green infrastructure.
- DEP will be installing more ESD practices in future years:
 - In the total CIP Cycle for the approved FY13-FY18 CIP budget, \$80,950,000, was budgeted for ESD projects.
 - In the total CIP Cycle for the approved FY15-FY20 CIP budget, \$141,082,000, was budgeted for ESD projects.
- DEP continues to work with partners:
 - Consistent definition (3/1/2016)
 - Green Infrastructure Policy (3/1/2016)
 - Specific Pilot Projects

Green Streets - Sligo Park Hills





Bioretention and rain gardens within the green panel

Stormwater Management Pond Retrofits



Fallsberry Stormwater Management Pond in Potomac, Maryland



Treated = 13 impervious acres Completed - October 2014

Stream Restoration





Breewood Stream Restoration Project near Wheaton, Maryland

Length = 1,280 Feet Completed - 2015



Moving Forward

Use of a Public Private Partnership (P3)

- After evaluating the P3 in Prince George's County and Fort Meade, the County is considering the use of a P3 for green infrastructure implementation as part of the program to complete the next permit cycle.
- ► The goal of the P3 is to increase efficiency, provide for development of local businesses, and provide for alternative financing.

Moving Forward

Nutrient Trading

- Allows trading across sectors (point sources (WWTP), Ag, and stormwater to optimize the cost and efficiency of restoration
- Director Feldt is participating on a newly developed MDE nutrient trading task force to evaluate nutrient trading in the State.
- Anticipate nutrient trading to be part of next permit.

Moving Forward

MS4 Financial Assurance Plan

- SB 863 requires all Phase I jurisdictions to submit a financial assurance plan biannually to MDE proving that the jurisdiction can provide the funding to support the impervious restoration requirement of the MS4 permit.
- First report due July 1, 2016
- Requires public hearing and approval of Council
- The jurisdictions and MDE are working on details of how reporting will be completed

Questions?